

Freeform Ribbon™ OSP All-Dielectric Microduct Cables

Sumitomo Electric Lightwave's (SEL) Freeform Ribbon™ OSP All-Dielectric Microduct Cables provide immediate scalability with installations of exact fiber types and counts required in real time. This cable features an all-dielectric design requiring no grounding or bonding, and the patented 12-fiber pliable Freeform Ribbon™ constructed of 250 μm color-coded optical fibers. Conduct fast and easy installs, upgrades, and MACs in minutes or hours versus the weeks or months associated with traditional cabling.

Freeform Ribbon™ enables high fiber density within a small cable diameter which in turn helps with limited duct space. The 12-fiber ribbons may be spliced to a conventional ribbon, pliable ribbon, or non ribbonized (single) fibers, as well as connectorization with both MPO and all industry standard connectors. The non-preferential bend axis allows for easy installation in space-constrained areas.

BENEFITS

- Color-Coded Optical Fibers for Quick and Easy Identification
- High Fiber Density Maximizes Duct Space
- Pliable Ribbon Allows For Higher Density In Space-Constrained Applications
- Compatible With Mass- & Single-Fiber Fusion Splicers, Splice-On Connectors, and Hardware

FEATURES

- Patented Pliable Freeform Ribbon™ Color-Coded Optical Fibers
- SEL's PureAccess® G.657.A1 Bend Insensitive Single-Mode Fiber (144f to 864f Only)
- SEL's PureAccess® G.657.A2 Bend Insensitive Single-Mode Fiber (24f to 96f Only)
- Gel-Free, Water-Blocking Tape
- Suitable to Blowing Installation in Microducts
- All-Dielectric Design Requires No Grounding or Bonding
- Tested Per Applicable Requirements of Telcordia GR-20



Microducts are sold separately.

QUICK SPECS

CABLE
STRUCTURE

Microduct

RIBBON TYPE

**Freeform
Ribbon™**

FIBER COUNT

24f - 864f

FIBER SIZE

**250,
200 μm**

To learn more information visit www.SumitomoElectricLightwave.com

GENERAL	
Application	Outdoor
Jacket Color	Black
Cable Structure	Microduct
Ribbon Type	Freeform Ribbon™
Metallic Elements	No Bonding/Grounding Required

FIBER		
Fiber Type (24f to 96f Only)	PureAccess® G.657.A2 Bend Insensitive Single-Mode Fiber	
Fiber Type (144f to 864f Only)	PureAccess® G.657.A1 Bend Insensitive Single-Mode Fiber	
Fiber Attenuation Grades	Standard Single-Mode	
Maximum Attenuation	1310 nm	0.40 dB/km
	1550 nm	0.30 dB/km
Mode Field Diameter	1310 nm	8.6 ± 0.4 μm

MECHANICAL CHARACTERISTICS	
Maximum Tensile Load (During Installation)	300 lb (1,334 N)
Maximum Recommended Service Load	90 lb (400 N)
Maximum Compression Resistance	28 lb/in (50 N/cm)
Expected Blow Distance	6,562 ft (2,000 m)

TEMPERATURE RANGE	
Operation	-30 to +158°F (-30 to +70°C)

STANDARDS & COMPLIANCE	
Standards	Referencing Telcordia GR-20; IEC60794
Regulatory Compliance	RoHS, REACH, Conflict Minerals, Proposition 65

BEND RADIUS	
During Installation (Dynamic)	20 x Cable OD
After Installation (Static)	15 x Cable OD

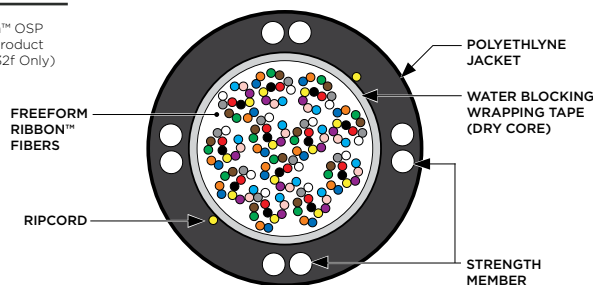
ORDERING INFORMATION

PART NUMBER	FIBER COUNT	NOMINAL CABLE OD		NOMINAL WEIGHT		FIBERS PER RIBBON
		IN	MM	LB/KFT	KG/KM	
250 μm						
SE-ACDP0024-B-12	24f	0.30	7.6	23.5	35.0	12f
SE-ACDP0096-B-12	96f	0.30	7.6	23.5	35.0	12f
SE-8CDP0144-B-12-M	144f	0.32	8.2	26.9	40.0	12f
SE-8CDP0192-B-12-M	192f	0.34	8.7	30.9	46.0	12f
SE-8CDP0288-B-M	288f	0.41	10.5	47.0	70.0	12f
SE-8CDP0432-B-M	432f	0.47	12.0	60.4	90.0	12f
SE-8CDP0864-B-M	864f	0.59	14.9	94.1	140.0	12f
200 μm						
DRMD-OSGN-SA00288-200-ADE	288f	0.37	9.5	34.9	52.0	12f
DRMD-OSGN-SA00432-200-ADE	432f	0.37	9.5	42.3	63.0	12f
DRMD-OSGN-SA00864-200-ADE	864f	0.53	13.5	80.6	120.0	12f

Microducts are sold separately.

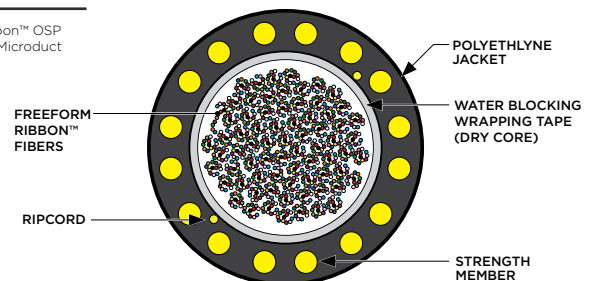
CROSS SECTIONS

Freeform Ribbon™ OSP All-Dielectric Microduct Cables (144f - 432f Only)



CROSS SECTIONS

Freeform Ribbon™ OSP All-Dielectric Microduct Cables (864f)



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